

# UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Offic

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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO.

09/129,958

08/06/98

MILLS

Α

LUTEC0008

HM22/1104

SPENCER AND FRANK SUITE 300 EAST 1100 NEW YORK AVENUE N W WASHINGTON DC 20005-3955 FREDMAN, J

ART UNIT PAPER NUMBER

**EXAMINER** 

1655 DATE MAILED:

11/04/99

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

	Application No.	Applicant(s)
Office Action Summary	09/129,958	MILLS ET AL.
	Examiner	Art Unit
	Jeffrey N Fredman	1655
The MAILING DATE of this communication appears on the cover she t with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.		
<ul> <li>Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.</li> <li>If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).</li> </ul>		
1) Responsive to communication(s) filed on <u>18 October 1999</u> .		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.		
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-8</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claims are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner.		
10) The drawing(s) filed on is/are objected to by the Examiner.		
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved.		
12) The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. § 119		
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).		
a) ☐ All b) ☐ Some * c) ☐ None of the CERTIFIED copies of the priority documents have been:		
1. received.		
2. received in Application No. (Series Code / Serial Number)		
3. received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of the certified copies not received.		
14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).		
Attachment(s)	_	
<ul> <li>14) Notice of References Cited (PTO-892)</li> <li>15) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>16) Information Disclosure Statement(s) (PTO-1449) Paper No(s)</li> </ul>	18) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)

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### **DETAILED ACTION**

#### Sequence Rules

The submission of the CRF for compliance with the Sequence Rules was received. The Scientific and Technical Information Center has not yet processed the CRF to determine if the new CRF complies with the Sequence Rules. Because compliance is not necessary for the examination of the current application, if any errors are found, the requirement will be mailed with the next action.

## Claim Rejections - 35 USC § 112

- 1. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 2. Claims 1-6 provide for a method of analog representation, but, since the claims do not set forth any active or positive steps involved in the method/process but simply identify data representations, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a method without any active, positive steps delimiting how this use is actually practiced.

Claims 1-6 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for

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example Ex parte Dunki, 153 USPQ 678 (Bd.App. 1967) and Clinical Products, Ltd. v. Brenner, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Method claims require a last step or phrase in the last step that states the accomplishment of the goals for the method which were stated in the method's preamble. Claims 1-8 lack such a last step and are confusing because the additional method step is not sufficiently set forth. While minute details are not required in method claims, at least the basic steps must be recited in a positive, active fashion. See Ex parte Erlich, 3 USPQ2d1011, p.1011 (Bd. Pat. App. Int. 1986). It is suggested that an amended claim more clearly describing the intended steps be submitted.

#### Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Guarnieri et al (U.S. Patent 5,955,322) teaches a DNA based computer. Schweitzer et al (U.S. Patent 5,804,373) teaches a DNA based computer. Rothemund (U.S. Patent 5,843,661) teaches a DNA based computer. Deaton et al. (Phys. Rev. Lett. 80(2):417-420) teaches parameters for DNA based computation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Fredman, Ph.D. whose telephone number is (703) 308-6568.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, W. Gary Jones, can be reached on (703) 308-1152.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

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Papers related to this application may be submitted to Technology Center 1600 by facsimile transmission via the P.T.O. Fax Center located in Crystal Mall 1. The CM1 Fax Center numbers for Technology Center 1600 are either (703) 305-3014 or (703) 308-4242. Please note that the faxing of such papers must conform with the Notice to Comply published in the Official Gazette, 1096 OG 30 (November 15, 1989).

Jeffrey Fredman
Primary Patent Examiner
Art Unit 1655

October 1, 1999